

CLAIMS

1. A hair treatment composition comprising:
 - (a) an anionic surfactant;
 - 5 (b) an amphoteric or zwitterionic surfactant;
 - (c) an alkyl amphoalkanoate surfactant; and
 - (d) an anti-dandruff agent that is in solution in the composition.
- 10 2. Composition as claimed in Claim 1, wherein the anionic surfactant is selected from sodium lauryl sulphate, sodium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3), ammonium lauryl sulphate and ammonium lauryl ether sulphate(n)EO, (where n ranges from 1 to 3).
- 15 3. Composition as claimed in Claim 1 or Claim 2 wherein the anionic surfactant is present in an amount of from 10 to 20 % by weight of the composition.
- 20 4. Composition as claimed any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is a betaine.
- 25 5. Composition as claimed any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is cocamidopropylbetaine.
- 30 6. Composition as claimed in any one of the preceding claims wherein the amphoteric or zwitterionic surfactant is present in an amount of from 0.5 to 5% by weight of the composition.

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7. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is a (C₆ to C₁₈ alkyl)ampho(C₁ to C₂ alkanoate).

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8. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is sodium cocoamphoacetate or sodium lauryl cocoamphoacetate.

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9. Composition as claimed in any one of the preceding claims wherein the alkyl amphoalkanoate surfactant is present in the composition in an amount of from 0.5 to 5% by weight of the composition.

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10. Composition as claimed in any one of the preceding claims, wherein the anti-dandruff agent is climbazole.

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11. Composition as claimed in any one of the preceding claims, wherein the anti-dandruff agent is present in the composition in an amount of from 0.1 to 5% by weight.

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12. Composition as claimed in any one of the preceding claims, wherein the composition comprises a cationic polymer in an amount of 0.01 to 5% by weight.

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13. Composition as claimed in any one of the preceding claims which has a pH in the range of from 5 to 8.

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14. Composition as claimed in any one of the preceding .
claims which has a pH in the range of from 6 to 7.
15. Composition as claimed in any one of the preceding
5 claims which is a shampoo.
16. A method of treating hair which comprises applying to
the hair a composition of any one of Claims 1 to 15.
- 10 17. The use of a surfactant mixture comprising: an anionic
surfactant; an amphoteric or zwitterionic surfactant;
and an alkyl amphoalkanoate surfactant to increase the
mildness of a hair treatment composition comprising an
anti-dandruff agent that is in solution in the
15 composition.
18. The use of a surfactant mixture comprising: an anionic
surfactant; an amphoteric or zwitterionic surfactant;
and an alkyl amphoalkanoate surfactant to increase the
20 deposition of an anti-dandruff agent from a hair
treatment composition.
19. Use as claimed in Claim 17 or Claim 18, wherein the
anti-dandruff agent is climbazole.

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